

izmeritel'nykh informatsionnykh sistem. Sistemy avtomaticheskogo kontrolya. Elektricheskiye izmereniya neelektricheskikh velichin (Automatic control and electrical measuring techniques; transactions of the conference, v. 2: Theory of information measurement systems. Automatic control systems. Electrical measurements of nonelectrical quantities). Novosibirsk, Redizdat Sib. otd. AN SSSR, 1964, 188-195

TOPIC TAGS: manometer, multichannel manometer

¹⁴
ABSTRACT: A high-accuracy manometric system is described (see Enclosure 1) which consists of a "multichannel" U-tube liquid manometer (each U-tube

Card 1/3

L 63251-65

ACCESSION NR: AT5913047

measuring the gas pressure drop at two points), a photoelectric servosystem, and a synchro-system between the photoelectric sensors and a remote digital indicator. The sources and values of possible errors are analyzed. A laboratory model exhibited these characteristics: (1) The manometer can measure pressure, vacuum, or pressure difference; (2) Its measuring range is represented by a 780-mm column of (opaque) liquid; (3) Rate of following, 274.2 mm of the column per minute; (4) Variation of the column by 1 mm causes a 720° rotation of the

per minute; (4) Variation of the column by 1 mm causes a 720° rotation of the synchro receiver; (5) Mean square error, 0.3 mm column; maximum error, 0.8 mm. Other technical data given. "N. A. Khmelevskiy took a creative part in the development of the synchro-system." Orig. art. has: 4 figures, 5 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 17Nov64

ENCL: 01

SUB CODE: EC, IE

NO REF SOV: 002

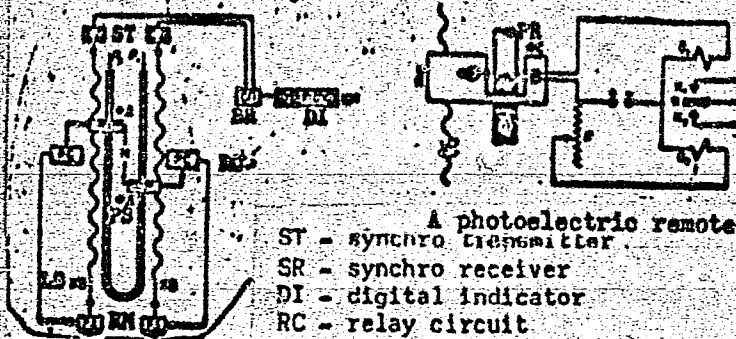
OTHER: 000

Card 2/3

L 63251-65

ACCESSION NR: AT5013047

ENCLOSURE: 1



A photoelectric remote-reading manometer

- ST - synchro transmitter
- SR - synchro receiver
- DI - digital indicator
- RC - relay circuit
- PS - photoelectric sensor
- LS - lead screw
- RM - reversible motor
- PR - photo resistor

llc
Card 3/3

L 41034-65

ACCESSION NR: AP5005934

S/0119/65/000/002/0008/0009

AUTHOR: Mayzel', M. B. (Engineer)

TITLE: Automated two-liquid micromanometer

SOURCE: Priboestroyeniye, no. 2, 1965, 8-9

TOPIC TAGS: micromanometer, automatic micromanometer

ABSTRACT: A two-tube automatic micromanometer with both liquids transparent (see Enclosure 1) is intended for measuring the small difference between the two pressures. Each tube is equipped with an automatic system that follows the separation line between the two liquids. Each servo system comprises photo-sensitive head 1 traveling by means of lead screw 2 along tube 3, three-position relay 4, relay amplifier 5, and reversible motor 6 coupled to the lead screw. The photosensitive head (consisting of light source 7 and two photovaristors 8) and relay 4 form a photorelay which controls the motor driving the lead screws. A

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ACCESSION NR: AP5005934

laboratory model had 800-mm-long glass tubes which held a silicone liquid (with a refraction index of 1.44) and ethyl alcohol (refraction index 1.36); a 0.3-mm-thick light beam was used. The maximum error was 0.1% or less, and the sensitivity of the instrument was nearly 100 times higher than that of an ordinary mercury U-tube manometer. Orig. art. has: 3 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUE CODE: IE

NO REF SOV: 003

OTHER: 000

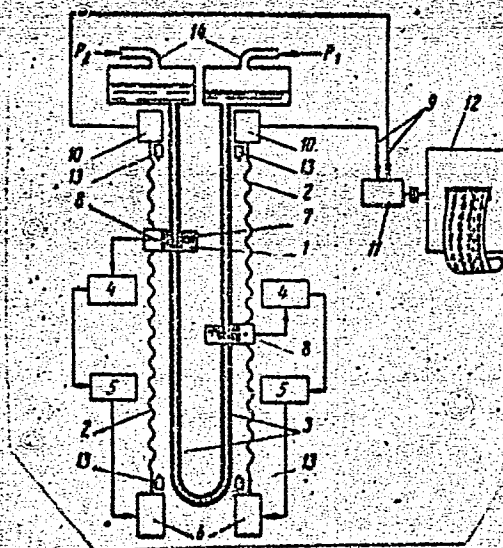
Card 2/3

L 41034-65

ACCESSION NR: AP5005934

ENCLOSURE: 1

An automatic two-liquid
micromanometer



Card 3/3

MAYZEL', M.G.

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C1960

1961/2

SEE ILC

CHEMISTRY

MAYZEL', M.I., assistant

Importance of rectosigmoidoscopy as a method of investigation in acute bacterial dysentery. Trudy Izhev.gos.med.inst. 13:414-418 '51.
(MIRA 13:2)

1. Iz kliniki infektsionnykh bolezney s epidemiologiyey Izhevskogo meditsinskogo instituta. Zaveduyushchiy kafedroy - prof. A.N. Filippovich.

(PROCTOSIGMOIDOSCOPY) (DYSENTERY)

MAYZEL', M.I.

Cancer of the stomach from data of the oncosurgical department
of the First Clinical Hospital in Minsk. Zdrav. Bel. 9 no.6:9-10
Je '63. (MIRA 17:5)

1. Iz onko-khirurgicheskogo otdeleniya I klinicheskoy bol'nitsy
g. Minska (glavnyy vrach A.I. Shuba). Nauchnyy rukovoditel' -
prof. N.N. Aleksandrov.

FIL'KOV, Nikolay Iosifovich; ; SHABLIY, Vladimir Maksimovich; MAYZEL',
Mark Moiseyevich; SOBAKIN, V.V., inzh., red.; VOROB'YEVA, L.V.,
tekhn. red.

[Repair of the trucks of the TE3 diesel locomotive] Remont te-
lezhek teplovoza TE3. Moskva, Transzheldorizdat, 1962. 57 p.
(MIRA 15:12)

(Diesel locomotives—Maintenance and repair)

MAYZEL', M. M.

Technology

Machines and devices of tanning and fur industry. Moskva, (os. nauchno-tekhn.
izd-vo legkoi promyshl., 1950.

Monthly List of Russian Accessions, Library of Congress
September 1952. UNCLASSIFIED.

MAYZEL', Maks Mikhaylovich

[Principles of automatic and remote control] Osnovy avto-
mekhaniki i telemekhaniki. Moskva, Gos.nauchno-tekhn.izd-vo
Ministerstva legkoi promyshlennosti SSSR, 1956. 402 p.

(MIRA 12:2)

(Automatic control)

(Remote control)

SOV/124-57-5-5637

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 77 (USSR)

AUTHORS: Barsh, K. N., Mayzel', M. M.

TITLE: The Simulation of the Slotted Cross section of Channels for the Draining of a Rubbery Mixture (Modelirovaniye shchelevogo poperechnogo secheniya kanalov dlya istecheniya rezinovoy smesi)

PERIODICAL: Nauch. tr. Mosk. tekhnol. in-ta legkoy prom-st., 1956, Nr 7, pp 92-99

ABSTRACT: Bibliographic entry

Card 1/1

BERLINER, Mark Aleksandrovich, kand. tekhn. nauk.; SMIRNOV, Sergey Mikhaylovich, inzh.; MAYZEL', M.M., prof., retsenzent.; VOLKOV, V.A., retsenzent.; VARSHAVSKAYA, L.S., red.; KNAKHIN, M.T., tekhn. red.

[Automatic control and regulation in the leather industry]
Avtomaticheskii kontrol' i regulirovanie v kozhevennoi promyshlennosti.
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po legkoi promyshl.,
1958. 362 p. (MIRA 11:11)

(Automatic control)
(Leather industry)

8(2)

PHASE I BOOK EXPLOITATION

1206

Mayzel', Maks Mikhaylovich, Doctor of Technical Sciences, Professor
Osnovy avtomatiki i telemekhaniki (Principles of Automation and
Telemechanics) 2nd ed., enl. Moscow, Gizlegprom, 1958, 547 p.
7,000 copies printed.

Reviewers: Rakovskiy, M. Ye., Candidate of Technical Sciences, and
Kozlov, B.P., Candidate of Technical Sciences; Ed.: Varshavskaya,
L.S.; Tech. Ed.: Knaknin, M.T.

PURPOSE: This book is intended to serve as a textbook for students of
vuzes. It may also be used by engineers and technicians engaged
in the design and operation of automatic and remote control
equipment.

COVERAGE: This book was approved as a textbook for the mechanical
engineering departments of light-industry vuzes by the Main
Administration of Technical Vuzes, USSR Ministry of Education.
The author describes theoretical principles and methods of

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Principles of Automation and Telemechanics

1206

calculation involved in the automatic coupling and control of production processes. The diagrams and examples of automatic systems are taken from various fields of light industry. The author states that many books on automation have been published in the USSR in recent years and makes special reference to a collection of articles written in 1954 by specialists in automation theory and edited by Professor V.V. Solodovnikov. He claims, however, that his book is the first which gives a systematic course on automation and remote control as applied to the program of studies in light-industry vuzes. The text is based on the author's course on the fundamentals of automation and telemechanics as presented to students of the mechanical engineering department of the Moscow Technical Institute of Light Industry. The author thanks M. Ye. Rakovskiy and B.P. Kozlov for their valuable advice and suggestions. There are 53 references, of which 48 are Soviet, 4 English and 1 French.

Card 2/8

TORNER, R.V., inzh.; MAYZEL', M.M., prof., doktor tekhn. nauk.

Special characteristics of the flow of rubber and crude rubber
mixtures. Izv. vys. ucheb.zav.; tekhn.prom. no.4:64-88 '58.
(MIRA 11:12)

1. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti.
(Rubber research)

NUSINOV, M.D., inzh.; POZIN, A.A., kand. tekhn. nauk; MAYZEL', M.M., doktor tekhn. nauk, prof.

Filling of ring press molds with a rubber mixture under constant and variable high pressure. Izv. vys. ucheb. zav.; tekhn. leg. prom. no.4:69-84 '59. (MIRA 13:2)

1. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti, Rekomendovana kafedroy oborudovaniya i avtomatizatsii tekhnologicheskikh protsessov.

(Rubber)

TCRNER, R.V. inzh.; MAYZEL', M.M., doktor tekhn. nauk prof.

Entry losses in isothermal flow of non-vulcanized rubber.

Izv. vys. ucheb. zav.; tekhn. leg. prom. no.4:94-106 '59.

(MIRA 13:2)

1. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti
Rekomendovana kafedroy oborudovaniya i avtomatizatsii tekhnologicheskikh
protssessov.

(Rubber--Testing) (Rheology)

PLEVAKO, Nikolay Alekseyevich; MAYZEL', M.M., prof., doktor tekhn.nauk,
retsensent; LATYSHENKOV, A.M., dotsent, kand.tekhn.nauk;
MINAYZVA, T.M., red.; KNAKHIN, M.T., tekhn.red.

[Fundamentals of hydraulics and hydraulic machinery] Osnovy
gidravliki i gidravlicheskie mashiny. Moskva, Izd-vo nauchno-tekhn.
lit-ry RSFSR, 1960. 427 p. (MIRA 14:1)
(Hydraulics) (Hydraulic machinery)

PHASE I BOOK EXPLOITATION

SOV/4692

Mayzel', Maks Mikhaylovich

Osnovy avtomatizatsii tekhnologicheskikh protsessov (Principles of Automation of Engineering Processes) Moscow, Gostekhizdat, 1960. 877 p. 6,000 copies printed. Errata slip inserted.

Reviewers: N.A. Kozulin, Professor, Doctor of Technical Sciences; A.L. Gurevich, Docent, Candidate of Technical Sciences; and M. Ye. Rakovskiy, Docent, Candidate of Technical Sciences; Eds.: T.M. Minayeva and M.N. Plemnyannikov; Tech. Ed.: M.T. Knaknin.

PURPOSE: This textbook is intended for students of engineering and wood technology at schools of higher education. It may also be useful to industrial engineers and technicians engaged in the design and operation of automatic devices and the automation of engineering processes.

COVERAGE: The author discusses the theoretical foundations of automation and calculation methods for the automation and automatic control of engineering processes. Also discussed are the working principles, constructions, and applications of the most important technical control-measuring and regulating

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Principles of Automation of Engineering Processes

SOV/4692

installations. The author thanks A.L. Gurevich, N.A. Kozulin, M. Ye. Rakovskiy, and S.M. Smirnov for valuable advice. There are 163 references, all Soviet.

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LEBEDEV, V.S., inzh.; MAYZEL' M.M., doktor tekhn.nauk, prof.

Investigating the splitting of leather and rubber on splitting machines. Izv.vys.ucheb.zav.; tekhn.prom. no.5:118-125 '60.
(MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekstil'nogo i legkogo mashinostroyeniya (for Lebedev). 2. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti (for Mayzel').
(Leather industry)

LEBEDEV, V.S., inzh.; MAYZEL', M.M., doktor tekhn.nauk, prof.

Studying the splitting of leather and rubber on the splitting machine. Report No.2. Izv.vys.ucheb.zav.; tekhn.prom. no.6: 124-129 '60. (MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekstil'nogo i legkogo mashinostroyeniya (for Lebedev). 2. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti (for Mayzel'). Rekomendovana kafedroy oborudovaniya i avtomatizatsii tekhnologicheskikh protsessov.

(Leather industry--Equipment and supplies)

NUSINOV, M.D.; POZIN, A.A.; MAYZEL', M.M.

Response to remarks concerning the articles of M.D. Nusinov,
A.A. Pozin, M.M. Maizel' published in the no.2, 1961 issue of
the journal. Izv.vys.ucheb.zav.; tekhnolog.prom. no.5:124-129
'61. (MIRA 14:12)

(Rubber machinery)

ARKHIPOV, Nikolay Nikolayevich; KARPACHEV, Pavel Spiridonovich;
MAYZEL', Maks Mikhaylovich, doktor tekhn. nauk, prof.;
PLEVAKO, Nikolay Alekseyevich; ZAYONCHKOVSKIY, A.D., doktor
tekhn. nauk, prof., retsenzent; ZOLOTOV, V.I., inzh., retsen-
zent; ZYBIN, V.P., doktor tekhn. nauk, retsenzent; KAPUSTIN,
I.I., doktor tekhn. nauk, prof., retsenzent; KOZLOV, B.A.,
inzh., retsenzent; POPOV, S.M., doktor tekhn. nauk, prof.,
retsenzent; EPPEL', S.S., kand. tekhn.nauk, dots., retsen-
zent; MINAYEVA, T.M., red.; SHVETSOV, S.V., tekhn. red.

[Basic processes, machinery, and apparatus of light industry]
Osnovnye protsessy, mashiny i aparaty legkoi promyshlennosti.
[By] N.N.Arkipov i dr. Moskva, Izd-vo nauchno-tekhn. lit-ry
RSFSR, 1961. 491 p. (MIRA 15:2)
(Industry)

ARKHIPOV, N.N.; KARPACHEV, P.S.; MAYZEL', M.M., doktor tekhn. nauk,
prof.; PLEVAKO, N.A.; UDODOVSKIY, A.M., kand. tekhn. nauk,
retsenzent; RYZHOVA, L.P., red. izd-va; EL'KIND, V.D.,
tekhn. red.

[Fundamentals of the design and construction of standard
machines and devices for light industry] Osnovy konstrui-
rovaniia i rascheta tipovykh mashin i apparatov legkoi
promyshlennosti. [By] N.N. Arkhipov i dr. Pod red. M.M.
Maizelia. Moskva, Mashgis, 1963. 599 p. (MIRA 16:7)
(Machinery--Design and construction)
(Instruments)

LEBEDEV, V. S., inzh.; MAYZEL', M. M., doktor tekhn. nauk, prof.

Studying the process of leather and rubber splitting on a splitting machine. Report No. 4: Studying the forced vibrations of the handknife of the leather splitting machine under magnetic field conditions. Izv. vys. ucheb. zav.: tekhn. leg. prom. no.4:126-138 '62. (MIRA 15:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekstil'nogo i legkogo mashinostroyeniya (for Lebedev). 2. Moskovskiy tekhnologicheskii institut legkoy promyshlennosti (for Mayzel').

(Machinery—Vibration)
(Leather industry—Equipment and supplies)

FIL'KOV, N.I.; MAYZEL', M.M.; FOLUEHIN, N.P.; ZABRODIN, E.V.;
KISELEVA, N.P., red.

[Maintenance and repair of the VMEL diesel locomotive]
Remont teplovoza VMEL. Moskva, Izd-vo "Transport,
1964. 136 p. (MIRA 17:8)

MAYZEL', M.M.; GOL'SHAKOV, P.A., kand. tekhn. nauk, retsenzent

[Fundamentals of the automation of production processes in industry] Osnovy avtomatizatsii proizvodstvennykh protsessov v legkoi promyshlennosti. Moskva, Izd-vo "Mashinostroenie" 1964. 322 p. (MIRA 17:8)

MIL'MAN, Yakov Vladimirovich; SHVYREV, Sergey Sergeyevich;
DOMANITSKIY, S.M., kand. tekhn.nauk, dots., retsenzent;
~~MAYZEL'~~, M.M., doktor tekhn. nauk, prof., retsenzent;
SOKOLOVA, V.Ye., red.

[Fundamentals of the automation of technological processes
in the textile industry] Osnovy avtomatizatsii tekhnologi-
cheskikh protsessov v tekstil'noi promyshlennosti. Moskva,
Izd-vo "Legkaia industriia," 1964. 389 p. (MIRA 17:6)

MAYZEL', Maks Mikhaylovich; MIL'MAN, Ya.V., red.

[Fundamentals of automatic control and automation of
industrial processes] Osnovy avtomatiki i avtomatizatsii
proizvodstvennykh protsessov. Izd.2., sokr. i perer.
Moskva, Vysshaya shkola, 1964. 579 p. (MIRA 17:8)

KARPACHEV, Pavel Spiridonovich; MAYZEL, Maks Mikhaylovich,
doktor tekhn.nauk, prof.; PLEVAKO, Nikolay Alekseyevich;
CHETKIN, Petr Petrovich; ZAYONCHKOVSKIY, A.D., doktor
tekhn.nauk, prof., retsenzent; ZOLOTOV, V.I., inzh.,
retsenzent

[Machinery and apparatus for the manufacture of artificial leather and film materials] Mashiny i apparaty proizvodstva iskusstvennoi kozhi i plenochnykh materialov.
[By] P.S. Karpachev i dr. Moskva, Legkaya industriya,
1964. 609 p. (MIRA 18:2)

FRIDLENDER, N.A., aspirant; MAYZEL', M.M., doktor tekhn. nauk, prof.

Distribution of heat sources in vulcanization presses and check
of the solving of such kind of problems on electric models.
Nauch. trudy MTILP no.30:258-268 '64. (MIRA 18:6)

1. Kafedra vysshey matematiki i kafedra avtomatiki Moskovskogo
tekhnologicheskogo instituta legkoy promyshlennosti.

LEONOV, A.I., inzh.; NUSINOV, M.D., inzh.; MAYZEL', M.M., doktor tekhn.
nauk, prof.

Approximation method for analyzing the filling up of a narrow
circular slit with a viscous elastic material. Nauch. trudy
MTILP no.24:188-193 '62. (MIRA 16:7)

1. Kafedra avtomatiki Moskovskogo tekhnologicheskogo instituta
legkoy promyshlennosti.
(Rheology)

MAYZEL', M.S.

Modified method for obtaining plasma by means of increased pressure in the containers. Probl. gemat. i perel. krovi, no.2:63 '65. (MIRA 18:11)

1. Otsheleniye perelivaniya krovi pri Chistotvorenii na volny bol'nitsa (glavnyy vrach D.P.V atskiy, Vologodskoy oblasti.

MAYZEL', N.I. (Moskva)

Psychological selection of flight personnel abroad. Vop.
psikhol. 6 no. 6:159-165 H-D '60. (MIRA 13:12)
(Flight crews)

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S/177/61/000/001/005/010
D211/D306

27-6351

AUTHORS: Zav'yalov, Ye.S., Colonel of Medical Services, Candidate of Medical Sciences, Mayzel', N.I., Candidate of Pedagogical Sciences, and Pokrovskiy, B.L., Captain

TITLE: Experience of psychological investigation of candidates selected for flying schools

PERIODICAL: Voenno-meditsinskiy zhurnal, no. 1, 1961, 34 - 37

TEXT: These investigations were carried out on the basis of the theory of human abilities worked out by Soviet scientists. This theory assumes that such abilities are the sum total of the relatively stable special features of the human character which make an individual suitable for a given profession. They cannot be regarded as acquired knowledge or habits; nor are they permanent, immutable qualities; depending on the inborn peculiarities of the individual neurophysiological system, they may change and develop according to the individual's way of life. Therefore, the authors do not attempt

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Experience of psychological ...

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to establish the level of knowledge or habits of candidates, but rather their psychological qualities which are important for flying, namely: emotional balance, firmness, degree of attentiveness, ability to acquire and to change movement habits and willpower. These qualities do not guarantee by themselves good results, they rather point to the potential in this direction. Investigations included experimental tests, personality analysis by means of interviews and the study of opinions received from those institutions where candidates worked previously. Groups of 20 to 25 men were tested collectively on attentiveness, motion-visual co-ordination and the ability to change habits. These tests took 90 mins. for the whole group. Individual testing was carried out the next day, when the candidates' moto-sensoric reactions were checked on the NIIAM apparatus. Their emotional reactions were studied and each was interviewed. The individual study of 20-25 men by 5 psychologists lasted 5 hours. After analyzing all available data, a suitability

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assessment for training was drawn up for each candidate, the results not being disclosed to the candidates. 89 pupils, during their training in flying schools were submitted to further observations. 51 of them had a favorable training forecast, 20 had unfavorable ones and no decision was made on 18. According to their training results, pupils were divided into 3 groups: 1) those with excellent and good results; 2) those who had average results, i.e. they succeeded in completing the course despite difficulties during training; 3) those with unsatisfactory results; to this group belonged pupils who were unable to finish the course and those, who although completing it, were found unsuitable for further training on more complicated aircrafts. In the authors opinion, the last two groups ought to be viewed together as unsatisfactory, because pupils of the average group had shown such psychological characteristics as would not allow them to become fully reliable pilots. The comparison of the initial forecasts with actual results shows that favorable forecasts were found to be ultimately correct in about 70 % of

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Experience of psychological ...

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the cases, the unfavorable ones in 75 % of the cases. The authors point out that it is impossible to determine all the characteristic qualifications of candidates during the very short time of entrance segregation, especially the interest of candidates in a flying career and the strength of their willpower. Therefore, it is indispensable to observe pupils during their training in schools, especially those who obtain unsatisfactory results, in order to determine the psychological factors which hinder their progress. The results of these observations could serve as a basis for rejecting some candidates before their entrance to flying school and also would point to the most suitable future training of unsatisfactory pilots. There is 1 table.

SUBMITTED: July, 1960

Card 4/4

MAYZEL', N.I., kand.pedagogicheskikh nauk

Psychological ~~selection~~ of aviators in the USA; survey of the
literature. Voen.-med.zhur. no.3:92-86 Mr '61. (MIRA 14:7)
(AERONAUTICS—PSYCHOLOGY)

MAYZEL', N.I. (Moskva); FATKIN, L.V. (Moskva)

Conference on the philosophical problems of cybernetics. Vop.
psikhol. 8 no.5:184-189 S-0 '62. (MIRA 16:5)
(Cybernetics--Congresses)

ZINCHENKO, V.P. (Moskva); MAYZEL', N.I. (Moskva); FATKIN, L.V. (Moskva)

Human operator's activity in the information search trials.
Vop. psikhol. 11 no.2:3-16 Mr-Ap '65. (MIRA 18:6)

L 60132-65 EWT(d)/EWP(v)/EWP(k)/ERP(h)/EWP(1) Pf-4 JXT(BF)
 ACCESSION NR: 'AP5010692 UR/0245/65/000/002/0003/0016
 AUTHOR: Zinchenko, V. P.⁴⁴ (Moscow); Mayzel', N. I.⁴⁴ (Moscow); Fatkin, L. V.⁴⁴ (Moscow)
 TITLE: Operator activity under information search conditions 39
 SOURCE: Voprosy psikhologii, no. 2, 1965, 3-16 B
 TOPIC TAGS: information processing, information control system, applied psychology, automatic control equipment 14
 ABSTRACT: Quantitative methods of evaluating the activities of a human operator in an information control system are presented. The paper is primarily concerned with more complex information control systems in which the quantity of input data greatly exceeds the quantity of output data and the operator plays an active role in the solution of a given problem. The information search process is divided into 4 stages: 1) receiving a request for service 2) actual

divided into 4 stages: 1) receiving a request for service, 2) actual search, 3) primary data processing, and 4) selection of primary response action. The formulas given for determining the quantity of data processed at each stage make it possible to: 1) compare the working efficiency of operators in solving different problems, 2)

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select the optimal number of code symbol alphabets, and 3) find frequency limits of data changes. The suggested methods are applicable only under the following conditions. Information search problems must have an information field of at least 10 or more elements. The alphabet symbols must be easy to distinguish to ensure instant recognition. Operating conditions should be close to stationary with no possibility of condition states or symbol codes changing while work is in progress. The proposed methods of evalua-

has: 3 figures and 9 formulas.

ASSOCIATION: None.

SUBMITTED: 00

ENCL: 00

SUB CODE: FH, DP

NR RIF SOV: 009

OTHER: 005

Card

2/2

ZINCHENKO, V.P. (Moskva); MAYZEL', N.I. (Moskva); FATKIN, L.V. (Moskva)

Qunatitative evaluation of operator's work in problems of search for
information. Vop. psikhol. 11 no.3:62-74 My-Je '65. (MIRA 18:7)

KOSOY, Vul'f Mikhaylovich; MAYZEL', N.P., inzh., red.; SLOBODKINA, G.N.,
red.; LEBEDEVA, L.V., tekhn.red.

[Heating blocks of hydraulic structures in laying concrete
in winter] Obogrev blokov gidrotekhnicheskikh sooruzhenii pri
proizvodstve betonnykh rabot v zimnee vremia. Moskva, Orgenergo-
stroi, 1959. 53 p. (MIRA 14:2)

(Hydraulic structures)

(Concrete construction--Cold weather conditions)

ALEKSANDROV, Aleksandr Petrovich; KUZNETSOV, Aleksey Yakovlevich; MAYZEL',
N.P., inzh., red.; LEVCHIK, L.P., red.; LEBEDEVA, L.V., tekhn.
~~red.~~

[Practices of the construction of the Stalingrad Hydroelectric
GES. Moskva, Orgenergostoi, 1960. 57 p. (MIRA 14:7)
(Stalingrad Hydroelectric Power Station)

94-1-14/24

Mayzel, N.S.
AUTHORS: Gul', V. Ye., Mayzel', N.S., Frenkel', S.N. and Khmunin, S.F.

TITLE: The Insulation of Live Parts in Packaged and Assembled High- and Low-voltage Equipment (Izolyatsiya tokovedushchikh chastey v komplektnykh i sbornykh ustroystvakh vysokogo i nizkogo napryazheniya)

PERIODICAL: Promyshlennaya Energetika, 1958, No.1,
pp. 29 - 31 (USSR)

ABSTRACT: Extensive use is now being made of prefabricated and packaged high- and low-voltage distribution equipment. In general, Soviet equipment of this kind is larger than foreign equivalents, which is wasteful in sheet steel, aluminium bus-bars, etc. Current-carrying parts are usually bare and are mounted on ceramic or plastic insulators; clearances are consequently large. By insulating these parts, the equipment could be made smaller. This short article describes appropriate materials and methods. Yu.F. Voronkov, N.S. Il'in and Ya.N. Kaplunov participated in the development of suitable insulation. After considerable experimental work, it was decided to investigate a number of polymers including p.t.f.e., poly-amide resin 548, polyvinylbutyral, butadiene-styrol rubber and silicone rubber. The most suitable material was found to be polyethylene. In the early stages of the work, films of the

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The Insulation of Live Parts in Packaged and Assembled High- and Low-voltage Equipment

94-1-14/24

material were applied to the conductors, but this was not very satisfactory. The best method proved to be hot-spraying with a special pistol. Air with powdered insulating material in suspension is heated by an acetylene flame so that the particles in molten and plastic form adhere to and build up on surfaces with which they come in contact. The equipment used to apply insulation in this way is illustrated diagrammatically. A polyethylene layer 0.9 mm thick was maintained in a humidity chamber for 24 hours and then tested for five minutes at a voltage of 5 kV/mm without breakdown. The material was also tested after exposure to heat, light, frost, vibration and water and was generally satisfactory. It is concluded that polyethylene insulation of appropriate thickness applied in this way can be used in distribution equipment for 6 - 10 kV. The work continues. There is 1 figure.

AVAILABLE: Library of Congress

Card 2/2

5(1,3)

AUTHORS:

Gul', V. Ye., Mayzel', N. S., SOV/153-2-2-25/31
Frenkel', S. N., Il'in, N. S., Kaplunov, Ya. N., Khmunin,
S. F., Voronkov, Yu. F.

TITLE:

Examination of the Use of High-molecular Substances for
the Isolation of Current Conducting Rails (Issledovaniye
primeneniya vysokomolekulyarnykh veshchestv dlya izolyat-
sii shin tokoprovodov)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimiches-
kaya tekhnologiya, 1959, Vol 2, Nr 2, pp 274-279 (USSR)

ABSTRACT:

A number of demands is made on the isolation mentioned in
the title, which could not be satisfied for a long time. In
most cases a material perfect in every way proved to be
unsatisfactory with regard to one single characteristic, so
that the rails mentioned in the title could not be isolated.
A uniform point-of-view concerning the electric break-down
of high-molecular compounds is lacking at present. The
authors presume that the electric field strength at which a
high-molecular compound breaks down, is mainly determined
by peculiarities of the chemical structure of the macro-
molecules, further by the structure of the material

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Examination of the Use of High-molecular Substances
for the Isolation of Current Conducting Rails

SOV/153-2-2-25/31

based upon a high-molecular compound, as well as by a number of external factors which are connected with the application of the relevant products. By confronting the values of a total polarization (electronic, ionic, and structural), it is possible to estimate the suitability of a material with a certain chemical composition. The structural polarization, first established by P. P. Kobeko, is characteristic of caoutchouc and caoutchouc-like materials. The purpose of the present paper is an attempt to use high-molecular materials of such composition and mode of application which meet all demands for isolating the rail surface. Butyl-caoutchouc, butadiene-styrene-caoutchouc, silicon-caoutchouc, polyamide-resin 548, polyvinyl-butyral, polytetrafluoro-ethylene (fluoroplast), and polyethylene were used. A device was set up for testing the resistance to electric breakdown. All requirements of GOST-864-41 were satisfied during the tests. Only the test voltage was increased to 3,500-5,000 v instead of 2,000 v. First of all the methods of application of the isolation-coating to the sample

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Examination of the Use of High-molecular Substances
for the Isolation of Current Conducting Rails

SOV/153-2-2-25/31

were discussed. All types of coatings were tested for heat-, frost-, light-, and ozone-resistance, and for vibration. Tables 1 and 2 show that the isolation on the basis of polymer substances, applied in molten state on a heated metal surface, differs from other isolation methods with polymers of increased electric strength. The authors propose a rational method of isolation for the conductor-rail, that is the application of molten and sprayed polyethylene particles on a heated rail surface. There are 2 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova; Kafedra fiziki (Moscow Institute for Fine Chemical Technology imeni M. V. Lomonosov; Chair of Physics)

SUBMITTED: December 16, 1957

Card 3/3

S/190/62/004/005/003/026
B119/B101

Authors: Gul', V. Ye., Mayzel', N. S., Kamenskiy, A. N., Fodiman, N.M.

Title: Electroconducting polymer-base systems. I. Study of the structure of current conducting compositions on the basis of unhardened resins

Source: Vysshemolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 642-644

TEXT: The authors studied the structural and mechanical properties, the microstructure (with a $\times 2$ (D-2) electrostatic electron microscope at 6000-fold electrooptic magnification), and the electrical conductivity of various phenol formaldehyde resins of the resol type (I) or the B-40 (B-40) epoxy resin type (II) filled with acetylene black. Results: Up to 30% carbon black is contained in the resin in the form of isolated particles; the specific electrical resistance is almost constant in the range of carbon black concentrations 30%. From 30% onward, the carbon black particles of I (grain size: 0-25 μ) are contacting one another continuously. Thus, the values of the electrical resistance are much lower than in mixtures containing less carbon black. With II, the grains of carbon black

Card 1/2

Electroconducting, polymer-base ...

S/190/62/004/005/003/028
B119/B101

are much larger so that greater amounts are necessary to improve conductivity. The difference in behavior of the two types of resin is due to their chemical nature. P. A. Rebinder and Ya. M. Parnas are thanked for their advice. There are 7 figures.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: February 20, 1961

Card 2/2

S/190/62/004/005/004/026
B119/B101

AUTHORS: Gul', V. Ye., Mayzel', N. S., Kamenskiy, A. N., Fodiman, N.M.

TITLE: Electroconducting polymer-base systems. II. Study of the structure of current-conducting compositions on the basis of hardened resins

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, 649-654

TEXT: The authors studied the structural and mechanical properties (with a combined device consisting of a Polyani dynamometer and a PMT-3 microhardness tester), the microstructure (with an electron microscope), and the electrical conductivity of various phenol formaldehyde resins of the resol type (I) or the E-40 (E-40) epoxy resin type (II) during and after hardening. Resins with a specific resistance below 10^5 ohm-cm are considered to be current conducting (according to R. H. Norman, Rubber J., 31, 24, 1956). Results: The specific resistance of the resins decreases rapidly at the beginning of the hardening process (up to the fifth to fifteenth minute; especially evident

Card 1/2

S/063/62/007/002/010/014
A057/A126

AUTHORS: Kaplunov, Ya.N., Mayzel', N.S.

TITLE: Conference on current conducting polymer materials

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D.I. Mendeleeva, v. 7, no. 2, 1962, 221 - 222

TEXT: The conference was held in October 1961 and was organized by the kafedra khimii i fiziki polimerov i protsessov ikh pererabotki (Chair of Chemistry and Physics of Polymers and their Processing) and the local organization VKhO imeni Mendeleeva Moskovskogo instituta tonkoy khimicheskoy tekhnologii imeni Lomonosova (Local Organization of the All-Union Chemical Society imeni Mendeleeva of the Moscow Institute of Fine Chemical Technology imeni Lomonosov). In the conference participated representatives of the VNIIPK, TsNIISK, TsNIIMPS, NIIShP, NIIR, Voenno-inzhenernaya akademiya im. Kuybysheva (Military-Engineering Academy imeni Kuybyshev), Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the AS USSR), Institut narodnogo khozyaystva im. Plekhanova (Institute of National Economy imeni Plekhanov) and others. The following reports were given: N.S. Mayzel', and V.Ye. Gul',

Card 1/2

GUL', V.Ye.; MAYZEL', N.S.; PASINSKAYA, A.A.

Investigating the structure and properties of thermosetting
electroconductive plastics. Plast.massy no.10:38-42 '63.

(MIRA 16:10)

ACCESSION NR: AP4011309

S/0069/64/026/001/0067/0071

AUTHOR: Gul', V. Ye.; Mayzel', N. S.

TITLE: Carbon black structures in polymer compositions

SOURCE: Kolloidnyy zhurnal, v. 26, no. 1, 1964, 67-71

TOPIC TAGS: carbon black, carbon black structure, polymer composition, phenol formaldehyde resin binder, furfural acetone composition, carbon black binder

ABSTRACT: The structures formed by carbon black particles intermixed with thermosetting resins was studied. Dependence of the shear stress upon the amount of deformation of a sample containing 30% carbon black was experimentally determined. It was determined that the shear stress remains constant after stationary conditions have been attained, and the magnitude of permanent shear stress depends upon the curing time. Increasing carbon black content in a furfural acetone monomeric composition increased the (a) curing rate (b) shear

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L 54969-65 EPA(s)-2/EWT(m)/EPP(c)/EWP(j)/T-PC-4/Pr-4/Pt-7 RM

ACCESSION NR: AP5012108

UR/0191/65/000/005/0049/0054

678.01:537.311.01:539.2

37
35
8

AUTHOR: Gul', V. Ye.; Mayzel', N. S.

TITLE: Effect of the three-dimensional structure of conducting polymeric materials on their electrical conductivity 15

SOURCE: Plasticheskiye massy, no. 5, 1965, 49-54

TOPIC TAGS: polymer structure, polymer conductivity, filler, acetylene black, thermosetting resin, epoxy resin, polyethylene polyamine, resin hardening, electrical resistance

ABSTRACT: The authors investigated the influence of the development of the three-dimensional structure on the conducting properties of E-181 thermosetting epoxy resin and the rubber-like fluorocopolymer SKF-32 (both filled with acetylene black). The structure of the filler in the polymeric systems and the influence of polymer type on the electrical conductivity of the system were also studied. A hardener (polyethylene polyamine) was introduced immediately before the experiment. It was shown that the formation of a continuous, conducting, three-dimensional structure of the filler (acetylene black) is determined by the prob-

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L 54969-65

ACCESSION NR: AP5012108

2
ability of contact between the filler particles, which increases with the filler content. The acetylene black can, in turn, affect the formation of the three-dimensional structure of the polymer, as indicated by studies of the hardening kinetics of electroconductive compositions. A relationship was observed between the change in the conductivity of E-181 compositions during their hardening and the kinetics of the hardening process. The character of the curves representing conductivity vs. acetylene black concentration is independent of the type of polymer. The absolute values of the conductivity for the same content of acetylene black in the range of low degrees of filling depend on the type of polymer

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033120003-8

for help with the electron microscopy." Orig. art. has: 5 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: 02, EM

NO REF SOV: 004

OTHER: 006

Card

2/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001033120003-8"

GUL', V. Ye.; MAYZEL', N. S.

Studying the dependence on temperature of the resistivity and
volt-ampere characteristics of polymers with three-dimensional
structure. Plast. massy. no. 9:38-40 '65. (MIRA 18:9)

17/11/2000
SUCHKOV, A.; PLOTNIKOV, K., redaktor; MAYZEL', P. redaktor; LEBKOEV, A.,
tekhnicheskii redaktor

[Revenue of the state budget of the U.S.S.R.] Dokhody gosudar-
stvennogo biudzheta SSSR. Moskva, Gosfinizdat, 1955. 304 p.
(Budget) (MIRA 9:2)

BURMISTROV, Dmitriy Vasil'yevich.; MAYZEL', Pavel Gavrilovich.; MIL'NER,
A., red.; TELEGINA, T., tekhn. red.

[Tax payments by the rural population; a manual for tax workers
and rural active groups] Nalogovye platezhi sel'skogo naselenia;
posobie dlia nalogovykh rabotnikov i sel'skogo aktiva. Moskva,
Gosfinizdat, 1958. 79 p. (MIRA 11:12)

1. Russia (1923- U.S.S.R.) Ministerstvo finansov.
(Taxation)

KREMER, Yu. [Kremers, J.]; MAYZEL', R. [Maizels, R.]; NAGLI, R.; SHMIDT, A.
[Smidts, A.]

Method of preparing "fibrinolizat" for parenteral feeding of
human subjects. Vestis Latv ak no.4:97-99 '62.

MAYZEL', S. D.

"A Rare Case of Traumatous Orbit," Vest. Oftalmol., 28, No. 4, 1949. Lt.-Col.,
Medical Service, -c1949-. Eye Div., Irkutsk Regional Mil. Mbr., Hosp., -c1949-.

MAYZFL, S. D.

Eye--Syphilis

Conjunctival and scleral gumma. Vest. oft., 30, No. 5, 1951

9. Monthly List of Russian Accessions, Library of Congress, March 1955, 2Uncl.

MAYZEL', S. D., MATVEYEV, N. V.

Eye--Diseases and Defects

Congenital ptosis masked by spasm of the orbicularis oculi. Vest. oft., 3, No. 6, 1951

9. Monthly List of Russian Accessions, Library of Congress, March 1952 Uncl.

MAYZEL', S.D. (Irkutsk)

Surgery of the lacrimal canals. Vest.oft. 71 no.1:51-53 Ja-F '58.
(LACRIMAL APPARATUS, surg.) (MIRA 11:3)

MAYZEL', S.S., inzhener.

Arranging a uniform load on the steam-generating volume of boiler
drums. Elek.sta. 25 no.6:50-54 Je '54. (MKRA 7:7)
(Steam boilers)

MAYZEL, S. S.

PERIODICAL ABSTRACTS

Sub.: USSR/Engineering

AID 4160 - P

MAYZEL', S. S.

SPRAVOCHNYY MATERIAL. UNIVERSAL'NAYA DIAGRAMMA I-t DLYA
ZHIDKIKH TOPLIV (Reference Material. Universal diagram I-t for
liquid fuel. Teploenergetika, no. 1, Ja 1956: 58-60.

Determines the enthalpy of smoke by means of a theoretical analysis,
accompanied by four tables and nomograms.

MAYZEL, S.S., inzhener.

New marine boiler design; from "Marine Engineer and Naval Architect"
no. 945 and 949. Sudostroenie 22 no.7:45-46 J1 '56. (MLRA 9:10)

(Boilers, Marine)

MAYZEL', S. Ya.

Electrical Engineering

Dissertation: "Investigating the Stability of Parallel Operation of a Wind Power Station With an Inertial Accumulator in a System of Commensurate Power." Cand Tech Sci, Joint Sci Council of All-Union Sci Res Inst of Mechanization of Agriculture (VIM) and All-Union Sci Res Inst of Electrification of Agriculture (VIESKh), 30 Mar 54. (Vechernyaya Moskva Moscow, 13 Mar 54)

SO: SUM 213, 20 Sep 1954

MAYZEL', S.Ya.

Stability of parallel operation of a wind power plant with an improved flywheel in a system of commensurate power in connection with gusts of wind. Izv.AN Kazakh.SSR. Ser.energ. no.8: 13-28 '55. (MLRA 8:12)

(Power plants) (Wind power)

MAYZEL', S.Ya.

Stability in the parallel operation of a wind power plant with a
flywheel during starting of asynchronous electric motors. Izv.AN
Kazakh SSR.Ser.energ. no.9:55-67 '55. (MLRA 9:5)
(Wind power) (Electric motors, Induction)

MAYZEL, S.Ya.

CHOKIN, Sh.Ch., otvetstvennyy redaktor; KRAVCHENKO, V.I., redaktor; MAYZEL, S.Ya., redaktor; MIRZAKHEYEV, K.M., redaktor; SEROV, F.I., redaktor; VASLAVSKIY, N.A., redaktor; ALFEROVA, P.F., tekhnicheskiiy redaktor.

[Use of wind power in agriculture of Kazakhstan; proceedings of a scientific and technical conference on the use of wind power, held September 1955, at the Power Institute of the Academy of Sciences and Ministry of Agriculture of Kazakhstan] Ispol'zovanie energii vetra v sel'skom khoziaistve Kazakhstana; trudy nauchno-tekhnicheskoi konferentsii po vetroispol'zovaniyu, sostoiavsheisia v sentyabre 1955 goda v Institute energetiki Akademii nauk i Ministerstve sel'skogo khoziaistva Kazakhskoi SSR. Alma-Ata, Izd-vo Akad.nauk Kazakhskoi SSR, 1957, 204 p.

(MLRA 10:5)

1. Nauchno-tekhnicheskaya konferentsiya po vetroispol'zovaniyu. Alma-Ata, 1955.

(Kazakhstan--Wind power)

CHOKIN, Sh.Ch.; REZNYAKOV, A.B.; MAYZEL', S.Ya.

Establishing a unified power system of Kazakhstan. Vest.AN Kazakh.
SSR 13 no.9:3-13 S '57. (MIRA 10:10)
(Kazakhstan--Electric power distribution)

MAYZEL, S. Ya.

8(6)

PHASE I BOOK EXPLOITATION

SOV/2083

Kalachev, Nikolay Stepanovich, Saveliy Yakovlevich Mayzel', Aleksandr Borisovich Reznayakov, and Shafik Chokinovich Chokin

Energetika Kazakhstana (Power Resources of Kazakhstan) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1958. 222 p. Errata slip inserted. 1,300 copies printed.

Sponsoring Agency: Akademiya nauk Kazakhskoy SSR. Institut energetiki.

Ed. (Title page): Sh. Ch. Chokin, Academician, Kazakh SSR Academy of Sciences;
Eds. (Inside book): L. S. Rzhondkovskaya and Yu. N. Kuznetsov; Tech. Ed.:
P. F. Alferova.

PURPOSE: This book is intended for engineers, geographers, economists, and other persons interested in the potential and present power resources of the Kazakh Republic.

COVERAGE: The monograph consists of two parts: The first, based on factual data, reviews in detail the fuel, hydro and wind-power resources of Kazakhstan, the degree to which they have been studied, their distribution throughout the territory, their quantitative and qualitative characteristics, and also, their

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Power Resources of Kazakhstan

SOV/2083

prospective utilization. The second part treats of general principles for developing the power resources of the Republic as a whole and that of the four principal power-producing regions. Considerations for creating and developing a unified power system for Kazakhstan are presented and a short historical resume of the development of Kazakh power resources up to 1957 is included. The economic maps comprising Figures (3) to (13) show: (3) the distribution of potential power resources (4) coal and lignite fields (5) water-power resources and their distribution into water-supply zones (6) regionalization according to frequency and mean annual average velocities of winds (7) variation of utilization coefficients of installed capacities and expected stand-stills of wind-power units (8) regionalization of power resources (9) map of water-power utilization for the northern region (including existing and planned dams, potential hydroelectric stations, pipelines, etc.) (10) Eastern power region (legend similar to (9)), (11) Northern power region (legend similar to (9)), (12) Regionalization plan based on the degree of agricultural electrification (kW/km^2) and (13) prospective plan for inter-power-system connections. The authors thank Academician V. P. Zakharov and Candidates of Technical Sciences V. A. Kiktenko and V. V. Favorskiy.

Card 2/4

VYPOLZOVA, M.N.; MAYZEL', S.Ya.

Determining the power of wind-driven electric power plants.
Izv. AN Kazakh. SSR. Ser. energ. no. 1:5-15 '58. (MIRA 12:6)
(Electric power plants)
(Wind power)

MAYZEL', S.Ya.

Principal basis for the creation and development of the consolidated electric power system of Kazakhstan. Trudy Inst. energ. AN Kazakh. SSR 2:73-81 '60. (MIRA 15:1)
(Kazakhstan--Interconnected electric utility systems)

MAYZEL', S. Ya.; LOYTER, B.E.

Wide-range voltage control on electric transmission lines. Vest.
AN Kazakh.SSR 16 no.1:54-58 Ja '60. (MIRA 13:5)
(Electric power distribution)
(Voltage regulators)

MAYZEL', S.Ya., kand. tekhn. nauk; SHUSTROV, E.P., inzh.

Consideration of expenditures on the compensation of voltage
and power losses in the design of electrical networks. Izv.
vys. ucheb. zav.; energ. 8 no.7:113-115 J1 '65. (MIRA 18:9)

1. Kazakhskiy nauchno-issledovatel'skiy institut energetiki.

23

Continuous mercerization of cellulose by the counter-current method. Ts. G. Matzel and I. D. Blidnyi. *Org. Chem. Ind. (U. S. S. R.)* 5: 275 (1968). Preliminary lab. tests on the mercerization of (viscose) cellulose in the mass by the counter-current flow of NaOH solution showed that the concn of hemicellulose attains the usual max. and ranges from 3.4 to 15.20 g/l throughout the length of the bath. The bulk of hemicellulose is removed in the 1st stages of mercerization and the further contamination of the liquor is caused chiefly by mixing with the alkali occluded in the cellulose. The expressed alkali can be mixed with the devanted liquor, since the 2nd con- sum equal amts. of hemicellulose. Chas. Blam

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

MAYZEL, TS.G.

Prolonging the life of boiler tubes used in the evaporating units
of alumina plants of aluminum works. TSvet.met.29 no.1:77 Ja '56,
(MLRA 9:6)

1.Nauchno-issledovatel'skiy institut khimicheskikh mashin, Sverdlov-
skiy filial.
(Aluminum--Metallurgy) (Pipe, Steel)

L 17435-63 EWP(q)/EWT(m)/EBS AFFTC JD/JW
 ACCESSION NR: AP3005541 8/0184/63/000/004/0037/0037
 AUTHORS: Mayzel', Ts. G. (Engineer); Vizel'berg, M. B. (Engineer); Shkurko, L. V.
 (Engineer)
 TITLE: Nickel-plating in the presence of sodium fluoride 57
 SOURCE: Khimicheskoye mashinostroyeniye, no. 4, 1963, 37
 TOPIC TAGS: sodium fluoride, nickelplating, porosity
 ABSTRACT: The introduction of sodium fluoride into nickel electrolyte causes the precipitation of iron, thus improving the quality of nickel plate and reducing its porosity. A 5g/liter solution of sodium fluoride is thoroughly mixed with the electrolyte. This operation is performed once per month and is followed by filtering the electrolyte through cloth.
 ASSOCIATION: Uralkhimmash zavod (Uralkhimmash Factory)
 SUBMITTED: 00 DATE ACQ: 21Aug63 ENCL: 00
 SUB CODE: ML NO REF SOV: 000 OTHER: 000
 Card 1/1

MAYZEL', TS.G., inzh.; VIZEL'BERG, M.B., inzh.; SHKURKO, L.V., inzh.

Nickel plating in the presence of sodium fluoride. Khim.mashinostr.
no.4:37 J1-Ag '63. (MIRA 16:9)
(Sverdlovsk--Nickel plating) (Sodium fluoride)

MAYZEL, V L

137-58-5-9293

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 72 (USSR)

AUTHORS. Mayzel, V. L., Tibilov, D S.

TITLE. A Mechanized Method of Pumping out Manganese Tails from Electrolytic Baths (Mekhanizirovannyi sposob otkachki margantseвого shlama iz elektrolitnykh vann)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn. metallurgii SSSR. 1957, Nr 2, pp 24-25

ABSTRACT. A description of a mechanized method employed at the "Elektrotsink" plant for removal of Mn slime tailings from electrolytic baths. The advantages of this method are pointed out.

G.S.

1 Electrolytes--Impurities 2 Manganese--Handling 3 Pumps
--Applications 4 Electrolysis--Equipment

Card 1/1

Mayzel', V.L.

137-58-5-9359

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 80 (USSR)

AUTHOR: Mayzel', V.L.

TITLE: Modified Design of Cathodes Employed for Electrolysis of Zn
(Izmeneniye konstruktsii katodov pri elektrolize tsinka)

PERIODICAL Byul. tsvetn. metallurgii, 1957, Nr 9, pp 21-22

ABSTRACT: A novel cathode design is proposed. The cathode consists of an Al sheet. Instead of a shaped Al bar, little caps and a shank are brazed to it; by means of these the cathode is mounted in the electrolytic bath and connected to the common electrode circuit. A Cu contact is brazed onto the aluminum content cap. Cathodes of this type are no longer usable after 1.5-2 years of service, i.e., when the surface of the sheet is worn out and the weight of the cathode is reduced by 2 kg. The advantages of employing such cathodes are listed.

G.S.

1. Cathodes (Electrolytic cell)--Design 2. Aluminum--Applications

Card 1/1

MAYZEL', V.M. (Moscow)

Role of the nurse in preparing the patient for examination in
the X-ray department. Med.sestra 17 no.4:44 Ap '58.

(MIRA 12:10)

(NURSES AND NURSES)

MAYZEL', V. M.

"On the Accuracy of Dunkerley's Formula and Approximate Computation of the Lower Frequency of Oscillations," Prik. Mat. i Mekh., 3, No. 1, 1939. Kharkov, -1938-.

MAYZEL' V. I.

Mbr., Chair of Mechanics., Kharkov State Univ., Im. A. M. Gorkey -1939-.
"A Tensometer for Determining the Tensor of Stresses: "Determination of
Stresses in a Strip With a Round Hole, Subjected to Tension, by Means of a
Tensometer, Recording, the Principal Stresses and Their Directions," Dok.
AN, 25, No. 3, 1939; "A Generalization of the Betti-Maxwell Theorem to the
Case of Thermal Stressed Condition and Some Cases of its Application,"
Dok. AN, 30, No. 2, 1941.

MAIZEL', V. M.

K raschetu bystro vrashchaiushchikhsia diskov turbokompressorov i drugikh mashin. (Akademiia Nauk SSSR. Institut mekhaniki. Inzhenernyi sbornik, 1941, v.1, no.2, p. 167-170, table)

Summary in English.

Title tr.: Computation of rapidly rotating discs of turbo-compressors and other machines.

TA4.A37 1941, v.1

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

MAYZEL', Veniamin Mikhaylovich, prof., doktor tekhn.nauk [deceased];
BELYANKIN, F.P., prof., doktor tekhn.nauk, otv.red.; MUSNIK,
N.I., tekhred.

[Temperature problem in the theory of elasticity] Tempera-
turnaia zadacha teorii uprugosti. Kiev, Izd-vo Akad.nauk USSR,
1951. 149 p. (MIRA 12:8)

1. Chlen-korrespondent AN USSR (for Mayzel'). 2. Deystvitel'nyy
chlen AN USSR (for Belyankin).
(Elasticity)

PAVLOV, Nikolay Georgiyevich, dotsent, kand, tekhn. nauk; MAYZEL', V.S.,
inzh., retsenzent; LANG, A.G., dots., red.; VASIL'YEVA, V.P., red.
izd-va; SPERANSKAYA, O.V., tekhn. red.

[Examples of crane designs] Primery raschetov kranov. Izd.2., perer.
i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1961. 301 p. (MIRA 14:7)

(Electric cranes)